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RONALD F. SHALLAT, M.D. FEBRUARY 17, 2006

1 UNITED STATES DISTRICT COURT

2 FOR THE DISTRICT OF ALASKA

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5 KIMBERLY ALLEN, Personal
6 Representative of the ESTATE Of
7 TODD ALLEN, Individually, on Behalf
8 of the ESTATE OF TODD ALLEN, and on
9 Behalf of the Minor Child PRESLEY GRACE
10 ALLEN,

11 Plaintiff,

12 vs. No. 304-CV-0131 (JKS)

13 UNITED STATES OF AMERICA,
14 Defendants.

15 -----/

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18

19 DEPOSITION OF RONALD F. SHALLAT, M.D.

20 February 17, 2006

21 San Francisco, California

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31 FILE NO.: A000DA7

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1 Q. So aside from articles that 10:11:40
 2 Mr. Guarino sent to you, you didn't do any review 10:11:42
 3 of the literature yourself; is that correct? 10:11:44
 4 A. No. That's correct. 10:11:46
 5 Q. I am just curious, why did you -- 10:11:46
 6 In terms of the depositions of people involved in 10:11:53
 7 this case, you reviewed Donna Fearey, Mrs. Allen 10:11:56
 8 and Patricia Ambrose. 10:11:59
 9 Did Mr. Guarino ask you specifically to 10:12:00
 10 review those particular depositions? 10:12:02
 11 A. No. I just thought that would be a 10:12:05
 12 good idea. 10:12:07
 13 Q. And why those particular ones as 10:12:08
 14 opposed to, like, Dr. Dietz or Dr. Lee or -- 10:12:10
 15 A. Well, I think that those other 10:12:14
 16 doctors were involved after the fact, and I assume 10:12:19
 17 the areas in dispute will be involving the 10:12:24
 18 depositions of the people that I reviewed, you 10:12:29
 19 know. That's all. Just that was the way I 10:12:32
 20 reasoned it out. 10:12:35
 21 Q. In terms of other materials that 10:12:36
 22 you were given by Mr. Guarino, were you given all 10:12:44
 23 of Mr. -- as far as you knew, all of Mr. Allen's 10:12:50
 24 medical records? 10:12:53
 25 A. As far as I know. 10:12:53

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1 Q. Were you given any of his 10:12:54
 2 employment records? 10:12:57
 3 A. I don't know. If they were in 10:12:58
 4 there, I didn't look at them. 10:13:01
 5 Q. You don't recall seeing any 10:13:02
 6 employment records? 10:13:04
 7 A. No. 10:13:04
 8 Q. Did you review the actual CT, the 10:13:05
 9 brain CT scans from Providence Hospital that were 10:13:08
 10 taken on April 19, 2003? 10:13:12
 11 A. Yes. 10:13:14
 12 Q. Let me ask you about your current 10:13:15
 13 practice. And you and I spoke, I think it was 10:13:20
 14 maybe two or three years ago; is that correct? 10:13:23
 15 A. That's right. 10:13:24
 16 Q. What -- currently, are you still 10:13:25
 17 semi -- would semi-retirement be the -- 10:13:29
 18 A. Semi-retired would be -- 10:13:31
 19 Q. -- a good way to describe -- 10:13:33
 20 description? 10:13:33
 21 A. -- the appropriate term, right. I 10:13:34
 22 am working just two days a week at UC Med Center 10:13:35
 23 in San Francisco. 10:13:38
 24 Q. What are you doing at the med 10:13:38
 25 center? 10:13:42

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1 A. I am teaching. I help other 10:13:42
 2 attending neurosurgeons there deal with the 10:13:50
 3 residents. I see patients with the residents, I 10:13:53
 4 review cases with them. I occasionally assist in 10:13:56
 5 surgery. 10:14:00
 6 Q. When you say you occasionally 10:14:01
 7 assist in surgery, are you assisting the residents 10:14:04
 8 or the attendings or -- 10:14:06
 9 A. Either. 10:14:08
 10 Q. How many patients are you seeing a 10:14:09
 11 week at U.C. Med Center? I'm sorry, U.S. Med 10:14:13
 12 Center. 10:14:16
 13 A. About probably ten. 10:14:16
 14 Q. All right. And is this any 10:14:19
 15 particular department of the -- I mean, is this in 10:14:24
 16 the neurosurgery department? 10:14:27
 17 A. It is in the neurosurgery 10:14:28
 18 department. 10:14:30
 19 Q. Do they have any particular -- is 10:14:30
 20 there sort of a subdepartment there that deals 10:14:32
 21 with, let's say, since it's the subject of this 10:14:36
 22 case, aneurysms? 10:14:37
 23 A. Yes, but I don't usually work with 10:14:39
 24 that department. 10:14:42
 25 Q. That is a separate department; is 10:14:43

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1 that correct? 10:14:45
 2 A. Well, it's a division, if you will, 10:14:45
 3 or a subspecialty of neurosurgery. That's right. 10:14:47
 4 Q. Would it be fair to say that is not 10:14:50
 5 your subspecialty? 10:14:54
 6 A. That's correct. 10:14:55
 7 Q. What is that subspecialty called? 10:14:55
 8 A. Vascular neurosurgery. 10:14:57
 9 Q. And is your particular interest or 10:14:59
 10 has -- let me back up. 10:15:02
 11 You have been a neurosurgeon for 40 10:15:03
 12 years; is that correct? 10:15:06
 13 A. That's correct. 10:15:07
 14 Q. Has your particular interest been 10:15:08
 15 in pediatric neurosurgery? 10:15:10
 16 A. That -- when I was in practice, 10:15:12
 17 that made up half of my practice. 10:15:13
 18 Q. What was the other half of your 10:15:14
 19 practice? 10:15:16
 20 A. Adult, general adult neuro -- 10:15:16
 21 everything. 10:15:18
 22 Q. General everything that came in the 10:15:18
 23 door? 10:15:20
 24 A. Right. 10:15:21
 25 Q. The -- and I understand you are 10:15:21

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1	A. Well, you want to try to make a	11:31:26	1	you would have to bump somebody who was scheduled	11:33:48
2	definitive diagnosis as to the cause of the	11:31:30	2	for an angiogram for some elective procedure or	11:33:51
3	subarachnoid hemorrhage.	11:31:33	3	what have you, you know.	11:33:54
4	Q. Would you do that through	11:31:34	4	So it could take a minimum of an hour to	11:33:56
5	angiography?	11:31:35	5	get it done and it could take several hours to get	11:34:00
6	A. That is the gold standard.	11:31:36	6	it done.	11:34:03
7	Nowadays, they are getting closer to relying on a	11:31:39	7	Q. How --	11:34:04
8	test called CT angiography, but --	11:31:43	8	A. By "done" I mean to get the patient	11:34:04
9	Q. And I do want to sort of go back to	11:31:48	9	to the suite. Then it takes more time, you know.	11:34:08
10	2003, what you think the technology that was	11:31:52	10	Q. How long does it take to do an	11:34:10
11	available at that point?	11:31:57	11	angiography?	11:34:13
12	A. Well, they had CT angiography, but	11:31:58	12	A. It could take anywhere from one to	11:34:13
13	I am not sure it was the gold standard. The gold	11:32:01	13	two or three hours, I think. It depends on the	11:34:17
14	standard would still be transfemoral cerebral	11:32:03	14	skill of the angiographer, the type of equipment	11:34:20
15	angiography.	11:32:07	15	they have, the help they have and so forth.	11:34:23
16	Q. When you say the gold standard --	11:32:08	16	Q. Then we have talked -- you have	11:34:28
17	A. Meaning the best available, the	11:32:09	17	talked a little bit about surgery, that that is a	11:34:34
18	most likely to make the clearest and most	11:32:13	18	potential treatment for aneurysm; is that correct?	11:34:37
19	definitive diagnosis.	11:32:17	19	A. That's correct.	11:34:41
20	Q. Okay. What else would that tell	11:32:19	20	Q. And what -- if you could just	11:34:41
21	you? What would the angiography tell you?	11:32:21	21	describe for me what are the kind of -- in 2003	11:34:44
22	A. It would tell you if you already	11:32:23	22	what were the possible surgeries?	11:34:47
23	had vasospasm.	11:32:25	23	A. Well, if we assume that the problem	11:34:50
24	Q. What else would it tell you?	11:32:29	24	is an aneurysm as a cause of subarachnoid	11:34:53
25	A. Well, it tells you about collateral	11:32:31	25	hemorrhage --	11:34:53
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1	circulation, which may be important in designing a	11:32:37	1	Q. Let's assume that for a moment.	
2	treatment plan.	11:32:43	2	A. Right. Surgery would consist of a	11:35:00
3	Q. Is art -- If you could help me out.	11:32:44	3	craniotomy, meaning an opening in the head, and	11:35:02
4	Arteriography, is that -- is angiography the same	11:32:49	4	approaching the aneurysm under the microscope, the	11:35:06
5	as arteriography?	11:32:52	5	ultimate goal is usually to try to put a metal	11:35:13
6	A. Yes.	11:32:52	6	clip on the aneurysm, on the neck of the aneurysm	11:35:17
7	Q. They are sort of synonymous?	11:32:53	7	to exclude it from the circulation without	11:35:20
8	A. Yeah. Technically, angiography	11:32:55	8	compromising the parent vessel.	11:35:24
9	means the study of blood vessels, whereas	11:32:58	9	Q. Is it more -- is there a typical	11:35:29
10	arteriography means the study of arteries, but you	11:33:02	10	location -- I mean, statistically, is there a more	11:35:32
11	end up studying them both.	11:33:06	11	typical location of the aneurysms that cause	11:35:34
12	Q. How long does it take to get -- I	11:33:08	12	subarachnoid hemorrhages?	11:35:38
13	am just curious in your own practice, how long	11:33:10	13	A. Well, most aneurysms occur on what	11:35:38
14	would it take you to get an angiography if you	11:33:12	14	is called the circle of Willis, at the base of the	11:35:41
15	wanted one?	11:33:15	15	brain. I am not sure of the exact percentage, but	11:35:44
16	A. Depended on the time of day. If a	11:33:16	16	probably somewhere in the neighborhood of 80	11:35:48
17	patient came in at 10:00 at night, you would have	11:33:22	17	percent occur on the so-called anterior part of	11:35:51
18	to call in the team to do angiography. And in	11:33:28	18	the circle of Willis and 20 percent on the	11:35:54
19	those cases, if they would assure you that they	11:33:32	19	posterior part, roughly.	11:35:55
20	would do it first thing in the morning, you might	11:33:35	20	Q. What are the consequences of that	11:35:57
21	set it up for first thing in the morning rather	11:33:37	21	location in terms of having, you know, being able	11:36:00
22	than bringing them in at midnight to do it, in	11:33:40	22	to have surgery or --	11:36:03
23	other words.		23	A. Right. Well, the aneurysms of the	11:36:05
24	If it happened during the day, then it	11:33:43	24	posterior part of the circle of Willis are	11:36:10
25	depended on what else they were doing and whether	11:33:45	25	technically more difficult.	11:36:11
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1 **Q. So the anterior being less** 11:36:15
 2 **difficult?** 11:36:18
 3 A. That's right, but still technically 11:36:18
 4 challenging. I mean, it's a -- it was probably 11:36:23
 5 the most hazardous kind of surgery that I did in 11:36:26
 6 neurosurgery, I mean, the highest risk and some of 11:36:31
 7 the most technically challenging surgery. 11:36:36
 8 **Q. So really, it would be -- you know,** 11:36:39
 9 **in an ideal world you would really want a patient** 11:36:41
 10 **who is being treated at a center where really the** 11:36:43
 11 **focus was on aneurysms and doing that type of** 11:36:46
 12 **surgery; would that be fair to say?** 11:36:48
 13 A. I think the patient has, you know, 11:36:50
 14 a much better chance of a good outcome. 11:36:52
 15 **Q. So a much better chance of a good** 11:36:56
 16 **outcome if they are in a facility which actually** 11:36:58
 17 **really specializes in that particular type of** 11:36:59
 18 **surgery?** 11:37:01
 19 A. Exactly. 11:37:02
 20 **Q. Would you agree with me that it's** 11:37:03
 21 **actually unusual that surgery would occur within** 11:37:11
 22 **the first 24 hours of a patient having a** 11:37:14
 23 **subarachnoid hemorrhage bleed?** 11:37:19
 24 A. Well, I think it's unusual only in 11:37:20
 25 the sense that the logistics sometimes are hard to 11:37:24

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1 **understanding of what your role is in this case?** 11:39:19
 2 A. I think that my role is to comment 11:39:20
 3 on the care of this patient and the course, in his 11:39:23
 4 subsequent clinical course, and the actions 11:39:32
 5 involved in and around his case. 11:39:35
 6 **Q. When you say comment on the care --** 11:39:38
 7 **and let me just explain. The reason why I want** 11:39:41
 8 **to -- I want to understand exactly what the** 11:39:44
 9 **expectation of your testimony is going to be at** 11:39:46
 10 **trial because it could affect the length of this** 11:39:48
 11 **deposition.** 11:39:50
 12 A. Okay. 11:39:51
 13 **Q. I hope you understand.** 11:39:51
 14 **So when you say comment on the care,** 11:39:53
 15 **what do you mean?** 11:39:55
 16 A. Well, as I told you earlier, I am 11:39:56
 17 not here to comment on whether the nurse 11:39:59
 18 practitioner met the standard of care. It's not 11:40:03
 19 my role and it's not my expertise to do so. 11:40:06
 20 **Q. All right. Again, the same thing** 11:40:09
 21 **is for the triage nurse?** 11:40:11
 22 A. Correct. 11:40:12
 23 **Q. So your comment or opinions would** 11:40:13
 24 **be, then, about his course or his likely course?** 11:40:18
 25 A. I would say that is probably a good 11:40:21

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1 arrange in 24 hours between getting the angiogram 11:37:28
 2 and then assembling an experienced and well-rested 11:37:36
 3 team to do it, you know. Again, most surgeons 11:37:41
 4 would not want to tackle this at 10:00 at night 11:37:46
 5 with a relief crew of nurses in the operating room 11:37:49
 6 and so forth, and so very often they are put off 11:37:53
 7 for 24, 48, 72 hours, just to make the logistics 11:37:56
 8 optimal. 11:38:01
 9 **Q. Sure. But statistically, I mean,** 11:38:03
 10 **that is -- would you agree that statistically that** 11:38:04
 11 **is true, most surgeries take place more than 24** 11:38:06
 12 **hours after the patient presents with a bleed?** 11:38:10
 13 A. Probably so. 11:38:12
 14 **Q. Okay. Let me ask you about the** 11:38:12
 15 **report, which I know I have. I have two copies of** 11:38:27
 16 **it.** 11:38:44
 17 **(Document marked Plaintiff's** 11:38:53
 18 **Exhibit 2 for identification.)** 11:38:54
 19 MS. McCREADY: Q. What exactly were you 11:38:54
 20 asked to do in this case? 11:38:58
 21 A. I don't remember the exact charge. 11:39:00
 22 I guess just to render an opinion about the whole 11:39:06
 23 case, you know, in some capacity, but I don't 11:39:12
 24 remember what the exact charge was. 11:39:15
 25 **Q. As you sit here today, what is your** 11:39:17

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1 characterization of it. 11:40:24
 2 **Q. Okay.** 11:40:25
 3 MR. GUARINO: Just so it is clear, you 11:40:28
 4 have got his report. You can expect he would 11:40:30
 5 testify about anything in terms of the statements 11:40:32
 6 that are made in his report. 11:40:34
 7 MS. McCREADY: Okay. 11:40:35
 8 MR. GUARINO: You keep raising in terms 11:40:36
 9 of standard of care and in terms of whether he is 11:40:38
 10 going to be asked to comment on standard of care. 11:40:39
 11 That is a legal term. I mean, to explain the 11:40:41
 12 concept of subarachnoid hemorrhage does not mean 11:40:43
 13 you are going to comment on the standard of care 11:40:45
 14 about something. 11:40:47
 15 MS. McCREADY: Let's make sure we 11:40:48
 16 understand this. 11:40:51
 17 In your -- is it your idea, Gary, that 11:40:51
 18 you can call an expert witness, you can just sort 11:40:55
 19 of comment on the care provided, so Dr. Shallat 11:40:58
 20 could comment that he thinks, well, gee, you know, 11:41:02
 21 it was perfectly reasonable for the nurse 11:41:03
 22 practitioner to have misdiagnosed this patient, 11:41:05
 23 but he is not going to talk about the standard of 11:41:10
 24 care? That doesn't make any sense to me. 11:41:12
 25 MR. GUARINO: If that's the point of 11:41:15

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1 question, I don't know, but he can certainly	11:41:16	1 cerebral aneurysm."	11:43:11
2 testify about whether subarachnoid hemorrhage is a	11:41:19	2 And that is correct, isn't it, that	11:43:13
3 difficult condition to diagnose. Why is that? It	11:41:21	3 statistically, most people with subarachnoid	11:43:15
4 has nothing to do with whether a nurse	11:41:24	4 bleeds such as this, the cause would be a cerebral	11:43:18
5 practitioner should or should not on that	11:41:27	5 aneurysm?	11:43:21
6 particular occasion diagnose it. It just explains	11:41:29	6 A. I believe that is true.	11:43:22
7 to a fact finder why it's a difficult condition to	11:41:30	7 Q. Is it your opinion that it's more	11:43:23
8 diagnose. That's not a standard of care question.	11:41:32	8 likely than not that Mr. Allen had a	11:43:25
9 But we can talk all day about that.	11:41:35	9 subarachnoid -- I'm sorry, that he had a cerebral	11:43:27
10 That is not the point of the deposition. You	11:41:36	10 aneurysm?	11:43:29
11 should question him about what is in the report.	11:41:38	11 A. I believe that statistically that	11:43:29
12 MS. McCREADY: Yeah, I will.		12 would be the best likelihood, yes.	11:43:32
13 MR. GUARINO: Yeah, I am sure you will.	11:41:41	13 Q. Sure. And it was like more than 50	11:43:35
14 But am I going to ask him, did Nurse Fearey breach	11:41:43	14 percent chance that he had a cerebral aneurysm; is	11:43:37
15 the standard of care? He just told you no, that	11:41:46	15 that right?	11:43:38
16 is not what he is going to be asked about.	11:41:47	16 A. I believe that is correct.	11:43:38
17 MS. McCREADY: Right. But there are	11:41:49	17 Q. Now, it says, "Certain categories	11:43:39
18 other ways. Certainly I would -- there are other	11:41:50	18 of drugs, such as cocaine and amphetamines, can	11:43:42
19 ways of commenting on care that you don't use the	11:41:52	19 induce this type of bleeding."	11:43:45
20 talismanic phrase "standard of care," but it's	11:41:56	20 Now, there is not any evidence in all	11:43:46
21 still the same thing. That's all. But that's all	11:41:57	21 the records you have reviewed, and you reviewed a	11:43:48
22 right.	11:41:59	22 lot of medical records; is that right?	11:43:50
23 MR. GUARINO: And then he may not	11:41:59	23 A. That's right.	11:43:51
24 understand all of those other ways. So you have	11:42:00	24 Q. There is not any evidence that	11:43:52
25 asked the question, he answered it. If that	11:42:02	25 Mr. Allen was using cocaine or amphetamines; is	11:43:54
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1 shortens your questioning today, great, but, you	11:42:04	1 that right?	11:43:57
2 know, you have got his report. You can assume	11:42:07	2 A. That's correct.	11:43:57
3 anything in his report, he could testify about.	11:42:09	3 Q. All right. And so again,	11:43:57
4 MS. McCREADY: That's fine. We will	11:42:12	4 statistically, most likely he had an aneurysm; is	11:44:00
5 move on.	11:42:14	5 that right?	11:44:03
6 Q. I have your report. We have marked	11:42:14	6 A. That's right.	11:44:03
7 it as Exhibit 2. Do you have that in front of	11:42:36	7 Q. Now, you go on to say that the	11:44:04
8 you, Dr. Shallat?	11:42:38	8 diagnosis of subarachnoid hemorrhage is often	11:44:08
9 A. Yes.	11:42:38	9 overlooked on initial presentation. And that is	11:44:13
10 Q. Okay. Certainly you have the	11:42:39	10 correct, isn't it?	11:44:14
11 opinion that Mr. Allen had a subarachnoid	11:42:43	11 A. Yes, it is.	11:44:14
12 hemorrhage bleed; is that correct?	11:42:47	12 Q. And as we just discussed, I mean,	11:44:15
13 A. That's correct.	11:42:48	13 that has been talked about in the literature for	11:44:16
14 Q. All right. And that -- was that	11:42:48	14 over 30 years; is that right?	11:44:18
15 based on the CT scan that was taken at Providence	11:42:51	15 A. That's right.	11:44:19
16 on April 19, 2003?	11:42:53	16 Q. And there is a problem where --	11:44:20
17 A. Yes.	11:42:55	17 there is a concern expressed generally in the	11:44:22
18 Q. Anything else that you relied on in	11:42:56	18 literature, that, gee, you know, patients with	11:44:24
19 determining that he had a subarachnoid bleed that	11:42:58	19 subarachnoid hemorrhages, it's important that	11:44:27
20 day?	11:43:01	20 practitioners who are in emergency departments	11:44:31
21 A. No.	11:43:01	21 actually, you know, learn how to do the	11:44:34
22 Q. You said, "Probably the most	11:43:01	22 differential diagnosis and diagnose subarachnoid	11:44:37
23 common" -- and I am reading from your report.	11:43:05	23 hemorrhages earlier.	11:44:41
24 "Probably the most common cause of this condition	11:43:06	24 I mean, is that a general concern that	11:44:42
25 other than trauma in a young person is that of	11:43:09	25 ER physicians, medical practitioners are missing	11:44:45
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1 thing? 11:53:22
 2 MR. GUARINO: Objection, foundation, 11:53:22
 3 because I think it's very careful in the questions 11:53:23
 4 whether you are asking about headache or pain in 11:53:25
 5 the head, because that is an ambiguous term in 11:53:31
 6 this case. 11:53:31
 7 MS. McCREADY: No, it is not an 11:53:31
 8 ambiguous term. I think the doctor understands 11:53:33
 9 what I mean, and I can ask my questions. 11:53:33
 10 MR. GUARINO: That is my objection. 11:53:33
 11 THE WITNESS: Well, it's always 11:53:35
 12 important in medicine to take a history that is 11:53:39
 13 accurate and careful. 11:53:42
 14 MS. McCREADY: Q. Well, there is a 11:53:47
 15 difference between accurate and detailed; would 11:53:47
 16 you agree? 11:53:52
 17 A. Yes. 11:53:57
 18 Q. You can get accurate information 11:53:57
 19 and ask one question; is that correct? 11:53:59
 20 A. Right. Okay. I guess I will go 11:54:00
 21 along with that. 11:54:02
 22 Q. Would it be important, then, to 11:54:03
 23 get -- to take a -- well, of course, it depends on 11:54:04
 24 what you are trying to ferret out from the 11:54:07
 25 patient, but it would be important, at least if 11:54:10

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1 you have got a patient who presents with a severe 11:54:11
 2 pain in their head, reporting severe pain in their 11:54:14
 3 head, that you would want to get a history as to 11:54:17
 4 understanding location of the pain; would you 11:54:19
 5 agree with that? 11:54:21
 6 A. Well, you already just said where 11:54:22
 7 the location was, in the head. But if the patient 11:54:24
 8 says the pain is in the ear, then that is -- it 11:54:26
 9 connotes a different concept, you know. 11:54:28
 10 So you are listening to the patient when 11:54:31
 11 you take a history. You are reacting to what they 11:54:34
 12 tell you, you know. You can't go in there with a 11:54:37
 13 prejudice and say, I think this guy has a headache 11:54:41
 14 or I think he has an earache. You have to listen 11:54:44
 15 to the patient and what they say and then go from 11:54:46
 16 there. 11:54:48
 17 Q. Exactly. You have to listen to the 11:54:49
 18 patient, and then as a medical provider, 11:54:50
 19 especially in an emergency department, it would 11:54:53
 20 also be your job to actually ask questions to 11:54:57
 21 glean certain information so you can make a 11:55:00
 22 differential diagnosis; would that be right? 11:55:01
 23 A. Sure. 11:55:03
 24 Q. And certainly you have to listen to 11:55:04
 25 the patient. That would be probably the most 11:55:05

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1 important thing. 11:55:07
 2 A. Right. 11:55:07
 3 Q. But in that setting, where you are, 11:55:08
 4 you know, a patient is reporting severe pain in 11:55:13
 5 the head, would you -- you would want to know the 11:55:17
 6 location, but would you want to know the location 11:55:19
 7 where in the head? 11:55:22
 8 A. Well, sometimes that is important, 11:55:23
 9 but most of the time, if it's head, meaning, you 11:55:28
 10 know, up here on the calvarium, on the -- whether 11:55:34
 11 it's frontal or occipital may not make a 11:55:37
 12 difference. Sometimes it makes a difference if 11:55:41
 13 the headache is unilateral versus bilateral. 11:55:43
 14 It makes a big difference if you are 11:55:46
 15 talking about headache versus pain, pain, such as 11:55:49
 16 ear pain, nose pain, eye pain, cheek pain, you 11:55:57
 17 know. I mean, so again, it's important to get an 11:56:00
 18 accurate and detailed description by the patient 11:56:06
 19 of the location of the pain, yes. 11:56:09
 20 Q. How about the onset of the pain, 11:56:11
 21 would that be something you would want to know? 11:56:16
 22 A. Yes. 11:56:18
 23 Q. And whether or not there were 11:56:18
 24 associated symptoms with that pain, would that be 11:56:22
 25 something you would want to know? 11:56:25

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1 A. Sure. 11:56:26
 2 Q. How about the history, whether or 11:56:26
 3 not it was pain that was like, you know, the pain 11:56:29
 4 the patient had had in the past? 11:56:31
 5 A. Very important. 11:56:33
 6 Q. Would it be important to know 11:56:34
 7 the -- when the intensity of the pain peaked or, 11:56:38
 8 you know, the natural history of the pain? Does 11:56:42
 9 that matter? 11:56:44
 10 A. Sure, it's all important in helping 11:56:44
 11 to come to a conclusion. Yes. 11:56:48
 12 Q. Going to the -- back to your 11:56:50
 13 report, that next paragraph, the fourth paragraph 11:56:57
 14 down, it says, "The diagnosis was especially 11:57:01
 15 difficult in Mr. Allen's case, since he had a long 11:57:03
 16 history of headache and/or facial pain. He was 11:57:05
 17 followed and treated for this condition, which was 11:57:11
 18 posttraumatic, by a pain clinic which dispensed 11:57:12
 19 and controlled his narcotic analgesic medicine." 11:57:14
 20 And I want to focus on the first 11:57:17
 21 sentence. When you say a long history of headache 11:57:18
 22 pain, what is that based on? 11:57:21
 23 A. The medical records. 11:57:23
 24 Q. What medical records specifically 11:57:25
 25 are you basing that on? 11:57:28

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RONALD F. SHALLAT, M.D. FEBRUARY 17, 2006

1	A. Well, I saw it referred to several	11:57:29	1	then I threw that away. So that is the only	11:59:30
2	times in his medical records that he complained of	11:57:31	2	thing.	11:59:33
3	headache, and that it was either associated with	11:57:33	3	Q. I was going to ask you --	11:59:33
4	or emanated from the ear and jaw, but it	11:57:39	4	A. I don't have any other handwritten	11:59:36
5	specifically used the term "headache" in some of	11:57:46	5	notes.	11:59:38
6	his medical records.	11:57:49	6	Q. You prepared this report? You	11:59:38
7	Q. It's important to me to know which	11:57:50	7	wrote it out; is that right?	11:59:40
8	those records are.	11:57:56	8	A. I wrote it out, typed it and threw	11:59:41
9	A. Well, I couldn't tell you. I would	11:57:56	9	it away.	11:59:43
10	have to go back and look at them one by one. And	11:57:58	10	Q. So no other handwritten notes?	11:59:44
11	I didn't write it down and say this is on page	11:58:00	11	A. No.	11:59:46
12	three or what. But I remember specifically, I	11:58:03	12	Q. How important is it that Mr. Allen	11:59:46
13	think in one instance in the physical therapy	11:58:10	13	has -- how important is it to your opinion that	11:59:53
14	paper and in one instance in the pain contract	11:58:13	14	the diagnosis was difficult in this case that this	11:59:55
15	paper that I think that was referred to. If you	11:58:17	15	issue that Mr. Allen had a long history of	12:00:00
16	want me to look at those papers now, I might be	11:58:20	16	headache pain?	12:00:02
17	able to find it.	11:58:23	17	A. I think it's very important.	12:00:03
18	Q. When we go on a break, I will ask	11:58:24	18	Q. Why is that?	12:00:07
19	you to look for those.	11:58:26	19	A. Because if he presents in the	12:00:08
20	A. Okay.	11:58:27	20	emergency room with symptoms that he has been	12:00:14
21	Q. That raises another question.	11:58:28	21	having on and off for two years, it makes your	12:00:17
22	Did you do a chronology in this case in	11:58:30	22	level of concern about subarachnoid hemorrhage	12:00:24
23	terms of any sort of chronology of what was going	11:58:32	23	less than concern about his usual problem.	12:00:28
24	on with Mr. Allen, either before the 19th of April	11:58:35	24	Q. Did you note at all when he	12:00:33
25	'03 or in taking notes?	11:58:39	25	previously had come to the -- presented at the	12:00:37
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1	A. I looked at some of his, you know,	11:58:41	1	emergency department of Alaska Native Medical	12:00:40
2	his previous medical records from the time of his	11:58:43	2	Center complaining of 10 out of 10 pain in his	12:00:44
3	accident and his reconstructive surgery and the	11:58:47	3	head?	12:00:47
4	pain contract.	11:58:50	4	A. I don't remember. I can't tell you	12:00:47
5	Q. But did you yourself take any notes	11:58:52	5	the date or the actual record that I saw.	12:00:49
6	and make yourself a chronology?	11:58:54	6	Q. Can you tell me whether or not you	12:00:53
7	A. No.	11:58:56	7	ever saw on this gentleman's medical record where	12:00:54
8	Q. Did you make -- did you take any	11:58:56	8	he presented to the emergency department, any	12:00:57
9	notes -- and maybe you just answered this, but I	11:58:59	9	emergency department, complaining of 10 out of 10	12:00:59
10	want to be clear.	11:59:00	10	pain in his head, and also reporting vomiting and	12:01:01
11	Did you take any notes and write down	11:59:01	11	nausea and unable to keep his pain medications	12:01:05
12	what visits or when he referred to having	11:59:04	12	down?	12:01:09
13	headaches?	11:59:07	13	A. No.	12:01:09
14	A. No.	11:59:09	14	Q. No, you don't remember or, no, you	12:01:09
15	Q. Did Mr. Guarino supply you with any	11:59:09	15	don't think you ever saw that?	12:01:12
16	sort of medical chronology?	11:59:12	16	A. I don't think I recall seeing that.	12:01:13
17	A. He supplied me with the medical	11:59:14	17	Q. Do you know whether or not, as you	12:01:15
18	records, but not --	11:59:18	18	sit here, whether or not when the last time	12:01:18
19	Q. I am asking specifically about like	11:59:18	19	Mr. Allen had even presented to the emergency	12:01:21
20	a chronology?	11:59:20	20	department at Alaska Native Medical Center prior	12:01:25
21	A. No, he did not.	11:59:21	21	to April 13, 2003?	12:01:28
22	Q. Did you take any handwritten notes	11:59:22	22	A. I don't remember.	12:01:29
23	on this case?	11:59:24	23	Q. Can you tell me whether or not he	12:01:31
24	A. I wrote out this report by hand	11:59:24	24	ever presented to any medical facility ever in the	12:01:32
25	before I typed it on the computer, but that --	11:59:27	25	medical records you reviewed complaining of pain	12:01:35
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1 A. It certainly sounds like it. He 12:20:35
 2 walked in. He was alert and he appropriately 12:20:37
 3 answered questions appropriately. So it sounds 12:20:40
 4 like he didn't have any neurological definite. 12:20:43
 5 That's right. 12:20:46
 6 **Q. When you say, "his symptoms did not 12:20:46**
 7 **significantly differ from his chronic complaints," 12:20:48**
 8 **what is that based on? 12:20:50**
 9 A. Well, when he signed in to the 12:20:51
 10 emergency room, I think that was the case where I 12:20:56
 11 saw his notation that said his chief complaint was 12:21:00
 12 right ear pain or ear pain. 12:21:04
 13 And he went on to tell them that he was 12:21:06
 14 worried about an ear infection and that he 12:21:10
 15 typically got these symptoms when he would go over 12:21:14
 16 mountains and/or a mountain pass, and that -- as I 12:21:18
 17 understand it, he relayed that past history to the 12:21:23
 18 people in the urgent care. 12:21:29
 19 **Q. I am going to mark as Exhibit 3 12:21:31**
 20 **that emergency visit record from April 19. 12:21:33**
 21 **(Document marked Plaintiff's 12:21:47**
 22 **Exhibit 3 for identification.) 12:21:48**
 23 MR. GUARINO: That first packet of 12:21:57
 24 things that I gave you, did that not get marked, 12:21:58
 25 the letters that --

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1 MS. MCCREADY: I didn't mark those yet. 12:21:58
 2 MR. GUARINO: Okay. All right. I
 3 thought you had. All right.
 4 MS. MCCREADY: But thank you for
 5 reminding me.
 6 **Q. Dr. Shallat, I just handed you what 12:22:00**
 7 **has been marked as Exhibit 3. 12:22:01**
 8 **Is this the record that you were 12:22:03**
 9 **referring to? 12:22:04**
 10 A. Yes. 12:22:05
 11 **Q. So this is the emergency visit 12:22:05**
 12 **record from April 19, 2003; is that correct? 12:22:06**
 13 A. Correct. 12:22:09
 14 **Q. And so, your opinion that his 12:22:09**
 15 **symptoms did not significantly differ from his 12:22:19**
 16 **chronic complaints is based on this; is that 12:22:21**
 17 **right? 12:22:23**
 18 A. Well, and the subsequent -- the 12:22:25
 19 testimony or depositions of the triage nurse and a 12:22:27
 20 the nurse practitioner in the urgent care clinic. 12:22:32
 21 **Q. So the triage nurse, Ms. Ambrose, 12:22:37**
 22 **and Donna Fearey; is that right? 12:22:40**
 23 A. That's correct. 12:22:42
 24 **Q. Did you also review the deposition 12:22:43**
 25 **testimony of Dr. Dietz or Dr. Lee? 12:22:45**

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1 A. I did. 12:22:48
 2 **Q. Was that sometime ago? 12:22:51**
 3 A. Yes. 12:22:53
 4 **Q. Do you remember who Dr. Dietz and 12:22:53**
 5 **Dr. Lee are? 12:22:56**
 6 A. Was Dr. Lee an internal medicine 12:22:57
 7 doctor who -- 12:23:01
 8 **Q. Yes. 12:23:01**
 9 A. -- admitted him when he came into 12:23:01
 10 the hospital comatose? I don't remember 12:23:04
 11 Dr. Dietz. Tell me about him, if you would. 12:23:08
 12 **Q. Okay. Dr. Dietz is the emergency 12:23:09**
 13 **room physician who admitted Mr. -- does that sound 12:23:12**
 14 **familiar? 12:23:15**
 15 A. Yes. 12:23:15
 16 MS. MCCREADY: I am going to mark as 12:23:15
 17 Exhibit 4 a Providence Alaska Medical Center
 18 record, date of service, April 19, '03, with Susan
 19 Dietz's his name on the bottom of it.
 20 Sorry, Gary. I know I have got another
 21 copy. Oh, here we are. 12:23:19
 22 (Document marked Plaintiff's
 23 Exhibit 4 for identification.) 12:23:19
 24 MS. MCCREADY: Q. Do you remember 12:23:19
 25 reviewing this record? 12:23:42

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1 A. Yes. 12:23:44
 2 **Q. Is it your understanding that 12:23:44**
 3 **Dr. Dietz, as we just discussed, is the emergency 12:23:46**
 4 **room physician that admitted Todd Allen to 12:23:49**
 5 **Providence Alaska Medical Center on the afternoon 12:23:52**
 6 **of the 19th? 12:23:54**
 7 A. Yes. 12:23:55
 8 **Q. So you have reviewed this record 12:23:56**
 9 **before? 12:23:57**
 10 A. That's correct. 12:23:58
 11 **Q. So did you -- I want to ask you 12:23:59**
 12 **about where Dr. Dietz discusses the history of the 12:24:03**
 13 **present illness, and specifically -- and I am 12:24:06**
 14 **going to read from her record. "The history 12:24:10**
 15 **obtained over the course of his resuscitation 12:24:13**
 16 **indicates that this gentleman was visiting from 12:24:16**
 17 **Valdez, therefore, staying in a hotel while he was 12:24:18**
 18 **doing shopping for his new home in Valdez. He 12:24:20**
 19 **apparently developed a severe headache earlier in 12:24:22**
 20 **the morning. His wife states he has a history of 12:24:26**
 21 **some episodes of chronic pain from a facial 12:24:27**
 22 **reconstruction from a significant motor vehicle 12:24:30**
 23 **accident one year ago, when he had to have some 12:24:31**
 24 **titanium plates placed in his face and jaw." 12:24:34**
 25 **Now, Dr. Dietz had the idea that 12:24:37**

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1	wife, who was present that morning, and that very	12:44:45	1	Mr. Allen actually had an aneurysm, what do you	12:46:51
2	same day, has a -- describes her husband as having	12:44:49	2	mean?	12:46:55
3	a severe headache and had pain going up the back	12:44:52	3	A. Just what I said. The only --	12:46:55
4	of his head to the top of his head?	12:44:55	4	there is no proof. There is speculation based on	12:47:03
5	A. No, I can't. I mean, I can't put	12:44:56	5	statistics, and I would agree with the statistics.	12:47:06
6	myself in her shoes. I don't know. But why would	12:44:58	6	I already said that I think it is more likely than	12:47:09
7	two medical personnel who are trained to take	12:45:03	7	not that he did have an aneurysm.	12:47:12
8	histories accurately and -- why would they	12:45:06	8	Q. And there is no proof because we	12:47:14
9	indicate it differently than what the wife's	12:45:10	9	don't -- there was no CT taken and he was not	12:47:18
10	recollection is later on? They document it. They	12:45:14	10	worked up for having a subarachnoid bleed that	12:47:20
11	wrote it down presumably the same day. And they	12:45:17	11	morning, so we don't have the data that; is	12:47:23
12	are trained to take histories.	12:45:21	12	correct?	12:47:25
13	There is no reason for them to fudge it	12:45:22	13	A. That's correct.	12:47:25
14	and say, Oh, no, I am going to make it sound like	12:45:23	14	Q. And that it's "pure speculation	12:47:25
15	it's ear and jaw and then head versus just	12:45:26	15	that his outcome could have been altered if the	12:47:30
16	headache. I mean, I don't -- there would be no	12:45:29	16	correct diagnosis had been made in a timely manner	12:47:32
17	reason for them to skew it in that direction.	12:45:32	17	and appropriate treatment instituted?"	12:47:35
18	Q. But given -- well, Donna -- you	12:45:37	18	If you could explain that. Why is that	12:47:38
19	know the training of Donna Fearey. She is not a	12:45:41	19	pure speculation?	12:47:40
20	medical doctor. You understand that; is that	12:45:44	20	A. Well, I think I explained it more	12:47:41
21	correct?	12:45:44	21	with this -- the subsequent, you know, things.	12:47:47
22	A. I understand.	12:45:44	22	Q. Sure. Please do.	
23	Q. Given what we know about what	12:45:45	23	A. And I think it has to do with the	12:47:52
24	happened with this gentleman, that he subsequently	12:45:51	24	time line of his whole clinical course. I think	12:47:56
25	died of a subarachnoid bleed, do you think that --	12:45:53	25	that is my point, that I think it would have been	12:47:59
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1	do you have any opinion as to whether or not it's	12:45:56	1	very difficult to have a good outcome in his case,	12:48:05
2	more likely than not that he had severe head pain	12:45:59	2	even if the correct diagnosis were made that	12:48:11
3	going up the back of his head to the top of his	12:46:02	3	morning based on what I say here.	12:48:14
4	head that morning?	12:46:04	4	Q. I mean, it's true, isn't it, that	12:48:18
5	A. I have no way of knowing that. I	12:46:05	5	this gentleman was discharged after given a shot	12:48:20
6	just have to go by what is written down there.	12:46:08	6	of Phenergan; is that right?	12:48:23
7	Q. I am going to go to the next	12:46:10	7	A. That's right.	12:48:24
8	paragraph of your report.	12:46:20	8	Q. He was sent to do whatever he was	12:48:24
9	MR. GUARINO: Is that Exhibit 2 now,	12:46:26	9	going to do; is that right?	12:48:26
10	just for --	12:46:27	10	A. Mm-hmm.	12:48:27
11	MS. McCREADY: Yes, it is. Thank you.	12:46:27	11	Q. He went to -- and according -- you	12:48:27
12	Q. It says, "Since there was no proof	12:46:28	12	know, you have read the wife's deposition; is that	12:48:30
13	that Mr." --	12:46:29	13	right?	12:48:31
14	MR. GUARINO: Excuse me. I am just	12:46:29	14	A. Yes.	12:48:31
15	trying to find my place. Hold on a second.	12:46:30	15	Q. And they went Sam's Club and they	12:48:31
16	MS. McCREADY: Q. "Since there was no	12:46:34	16	walked around; is that true?	12:48:41
17	proof" -- and I am reading from your report --	12:46:38	17	A. They first went to breakfast. He	12:48:41
18	"that Mr. Allen actually had any aneurysm, it is	12:46:40	18	ate a large breakfast, she said.	12:48:41
19	pure speculation his outcome could have been	12:46:42	19	Q. Is that something that is of	12:48:41
20	altered if the correct diagnosis was made in a	12:46:43	20	consequence to you or is that --	12:48:41
21	timely manner and appropriate treatment	12:46:45	21	A. Again, in my mind, that is not the	12:48:41
22	instituted."	12:46:48	22	picture of someone who has had a major bleed at	12:48:44
23	I have a couple of questions about that	12:46:48	23	that point in time. You know, he is too well to	12:48:48
24	sentence.		24	have had a major bleed. He probably, more likely	12:48:52
25	When you say there is no proof that	12:46:50	25	than not, as you have got me to say, that he had a	12:48:55
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1	Q. But not only did he not get	13:04:35	1	A. No.	13:06:35
2	treatment, wasn't it -- he was not even told not	13:04:37	2	Q. So not only was he not treated, he	13:06:39
3	to lift anything. I mean, he went -- let me	13:04:41	3	was doing things that could have been	13:06:42
4	strike that. Let me ask a question.	13:04:44	4	contraindicated for his condition; is that fair to	13:06:46
5	Wasn't it really worse than not getting	13:04:48	5	say?	13:06:47
6	medical treatment for Mr. Allen in that he went on	13:04:50	6	A. That is fair to say.	13:06:47
7	to do certain activities that, in fact, could have	13:04:52	7	Q. So isn't it speculation that he	13:06:47
8	made his condition worse?	13:04:54	8	would have had a poor prognosis regardless of	13:06:49
9	MR. GUARINO: Object to foundation.	13:04:56	9	treatment?	13:06:52
10	THE WITNESS: Well, you know, I guess if	13:04:58	10	A. I still think -- yes, I still think	13:06:53
11	he went to the gym and started weight-lifting,	13:05:03	11	his prognosis was very poor, because, as I said,	13:06:57
12	that would have been bad, but I mean, to -- since	13:05:06	12	even if the diagnosis had been made, the time line	13:07:01
13	the diagnosis was not made, I don't know that	13:05:09	13	of how quickly he could have been worked up and/or	13:07:05
14	there was any reason for them to give him any	13:05:12	14	treated was such that I think he -- by the time	13:07:09
15	special precautions. And, in fact, it sound like	13:05:16	15	the diagnosis was made, the definitive one with an	13:07:14
16	he didn't do much.	13:05:18	16	angiogram, was about the time he probably started	13:07:18
17	I mean, he laid down on a swing at Sam's	13:05:19	17	deteriorating. And, you know, I am not sure that	13:07:21
18	Club while she was shopping, and when they got	13:05:22	18	anything that anybody could have done could have	13:07:27
19	back to the hotel he laid down. He might have	13:05:24	19	turned that around.	13:07:30
20	brought some packages in, but I don't know how	13:05:27	20	Q. Doctor, let me ask you, isn't one	13:07:31
21	much they weighed or how much, you know, exertion	13:05:30	21	of the purposes of when you are monitoring a	13:07:35
22	he did. But it sounds like he didn't do much.	13:05:32	22	patient who has got a subarachnoid bleed, before	13:07:38
23	But I mean, you can always use hindsight	13:05:37	23	you do an angiogram or before you do surgery or	13:07:39
24	and say, gee, if we had known his diagnosis, we	13:05:40	24	before you do any sort of further testing, isn't	13:07:42
25	should have told him not to do this or that, but	13:05:41	25	one of the reasons to monitor the patient so that	13:07:45
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1	we didn't -- they didn't know, so I can't fault	13:05:44	1	you can prevent them from deteriorating?	13:07:47
2	them for not saying don't do this or that.	13:05:47	2	MR. GUARINO: Object to the foundation.	13:07:50
3	MS. McCREADY: Q. And I'm sorry, my	13:05:51	3	THE WITNESS: Well, I will try to answer	13:07:51
4	question probably was not very clear, because I	13:05:51	4	that. Let's say he was being monitored. Let's	13:07:53
5	didn't mean criticize -- I didn't mean to ask you	13:05:54	5	say he was in the hospital being monitored, and	13:07:57
6	to criticize or not criticize the staff at Alaska	13:05:57	6	then at 1:00 in afternoon they say, Okay, we are	13:08:00
7	Native Medical Center because they didn't give him	13:06:00	7	ready for you, Mr. Allen, for your angiogram. And	13:08:02
8	precautions when he left.	13:06:03	8	they take him down and sedate him to do the	13:08:05
9	But my question really is, not only did	13:06:04	9	angiogram.	13:08:08
10	Mr. Allen -- you would agree with me that	13:06:07	10	And during the course of the angiogram,	13:08:09
11	Mr. Allen certainly didn't get any medical	13:06:10	11	you know, because that is about the time that he	13:08:12
12	treatment when he left Alaska Native Medical	13:06:12	12	started going down the hill. There is not much	13:08:13
13	Center that morning.	13:06:14	13	you could do, I mean, you know. So it didn't	13:08:16
14	A. Okay. Other than the Phenergan.	13:06:15	14	matter. I am presenting a hypothetical case, as	13:08:20
15	Q. Other than the Phenergan.	13:06:16	15	you are, too.	13:08:24
16	A. Okay.	13:06:17	16	MS. McCREADY: Q. Sure. But we only	13:08:28
17	Q. But he did things -- I mean,	13:06:17	17	have hypotheticals because we have got a lack of	13:08:28
18	lifting things certainly would not be something	13:06:21	18	data in this case; isn't that right?	13:08:30
19	you would recommend to a patient with a	13:06:24	19	A. Yeah. But I mean, I am saying	13:08:31
20	subarachnoid hemorrhage to do; wouldn't that be	13:06:26	20	that, you know, he started going downhill very	13:08:32
21	fair?	13:06:27	21	rapidly about the time that, my understanding of	13:08:37
22	A. That's correct.	13:06:27	22	the logistics and the time line of how he could	13:08:41
23	Q. Would you recommend to a patient	13:06:28	23	have been worked up and treated, you know, and he	13:08:44
24	with a subarachnoid hemorrhage that they lay down	13:06:30	24	certainly -- I don't think that they could have	13:08:50
25	and go to sleep without any monitoring?	13:06:34	25	gotten him in good enough shape to ship him down	13:08:57
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1 to Seattle based on what I know of when he went	13:09:00	1 conditions. Those are the two things that you	13:11:32
2 downhill and how long it would have taken them to	13:09:03	2 look for in someone who is very severely impaired	13:11:36
3 get him worked up and then shipped out.	13:09:06	3 as he was at the time he had that CAT scan, in the	13:11:40
4 Now, if they didn't take the time to do	13:09:08	4 hopes that you can deal with that and make him	13:11:43
5 the angiogram and just said, Hey, we have got a	13:09:11	5 better.	13:11:45
6 guy that we really think has a subarachnoid	13:09:12	6 He did have subarachnoid hemorrhage, for	13:11:46
7 hemorrhage. We are going to ship you down right	13:09:15	7 sure, and he had cerebral edema or brain swelling.	13:11:50
8 now; and I don't know how long that would have	13:09:16	8 Q. Let me ask you about the -- do we	13:11:56
9 taken to get the helicopter and get him to	13:09:19	9 know whether or not he had either of those two	13:12:00
10 Seattle, but that might have been a better	13:09:24	10 conditions, the hydrocephalus or a blood clot,	13:12:02
11 scenario than admitting him, working him up, doing	13:09:30	11 earlier in the day?	13:12:04
12 the angiogram there, and then deciding where he	13:09:33	12 A. No. They have would have showed up	13:12:05
13 should go.	13:09:36	13 on the CAT scan.	13:12:07
14 But I still think, you know, it was a	13:09:38	14 Q. They would have showed up on the	
15 case that would have been very difficult to have a	13:09:43	15 CAT scan --	
16 good outcome no matter what.	13:09:46	16 A. Oh, yeah.	13:12:08
17 Q. I guess I want to ask about your	13:09:48	17 Q. -- in the afternoon?	13:12:08
18 opinion about that.	13:09:52	18 And when -- and the CAT scan was taken	13:12:09
19 Do you think it's more likely than not	13:09:53	19 after he was -- went into respiratory arrest and	13:12:11
20 that regardless of the treatment he would have had	13:09:56	20 was taken to the hospital; is that right?	13:12:16
21 the same outcome? And more likely than not	13:09:58	21 A. Right.	13:12:17
22 meaning, you know, is it more than 50 percent	13:10:01	22 Q. And then, so he certainly had	13:12:17
23 likely that he would have had the same outcome	13:10:03	23 subarachnoid --	13:12:18
24 regardless of treatment?	13:10:05	24 A. Hemorrhage.	
25 A. Yes.	13:10:06	25 Q. -- hemorrhage?	13:12:20
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1 Q. You reviewed the CAT scan from	13:10:07	1 A. Mm-hmm.	13:12:20
2 Providence; is that right?	13:10:11	2 Q. And then he had brain swelling?	13:12:20
3 A. Yes.	13:10:12	3 A. Right.	13:12:21
4 Q. Tell me what you gleaned from that	13:10:12	4 Q. And then did Mr. --	
5 CAT scan.	13:10:14	5 A. And he probably also had signs of	13:12:23
6 A. Well, the first thing that I	13:10:14	6 ischemia to the brain.	13:12:27
7 gleaned was the absence of two conditions that	13:10:17	7 Q. Did you see that he had signs of	13:12:29
8 could have helped him a lot if he had them and	13:10:22	8 ischemia to the brain?	13:12:31
9 they were dealt with, and the local neurosurgeons	13:10:26	9 A. Yeah, because the distinction	13:12:32
10 could have dealt with that. And that is, one is a	13:10:30	10 between the gray matter and the white matter was	13:12:34
11 clot, intercerebral hemorrhage. And if that was a	13:10:35	11 indistinct or blurred, and that is usually an	13:12:36
12 large clot and causing mass effect on the brain,	13:10:41	12 indication that there has been some ischemic	13:12:39
13 they could have gone in and evacuated that clot	13:10:46	13 change to the brain.	13:12:41
14 and got him in much better shape for subsequent	13:10:49	14 Q. Let me ask you to explain that.	13:12:42
15 treatment of the aneurysm.	13:10:53	15 What are the signs -- I mean, what is	13:12:44
16 The second condition that he could have	13:10:54	16 ischemia, and then how does that relate to gray	13:12:46
17 had on that CAT scan, but he didn't, was	13:10:58	17 and white matter being --	13:12:49
18 hydrocephalus, enlarged ventricles to the blood	13:11:02	18 A. Well, ischemia means that there is	13:12:50
19 obstructing the flow or absorption of spinal	13:11:07	19 lack or insufficient blood supply to the brain.	13:12:55
20 fluid. And they could have put in a ventricular	13:11:10	20 And when you have that it causes damage to the	13:13:00
21 drain, an external ventricular drain, or EVD,	13:11:14	21 brain, and that can be visualized or imaged on the	13:13:07
22 that, again, could have made him better to the	13:11:17	22 CAT scan by blurring of the gray-white junction,	13:13:13
23 point where then they could have either dealt with	13:11:24	23 the -- where the gray matter and the white matter	13:13:18
24 the aneurysm or shipped him out or what have you.	13:11:27	24 meet should be clearly demarcated, and when you	13:13:21
25 He didn't have either of those	13:11:30	25 see it kind of blend together, as it is in this	13:13:24
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1	Improved his condition; is that correct?	13:26:37	1	What is that based on? I want to know everything	13:29:03
2	A. Correct.	13:26:38	2	that you are looking at to come to that opinion.	13:29:07
3	Q. It's not that, you know, had he had	13:26:38	3	A. Well, to me it's the best	13:29:08
4	a subarachnoid bleed -- If you have got somebody	13:26:42	4	explanation of why he went downhill so quickly.	13:29:12
5	who has -- strike all that.		5	As I said earlier, if we accept the fact that he	13:29:18
6	If you have a patient with a	13:26:46	6	probably had a sentinel bleed in the morning, you	13:29:25
7	subarachnoid bleed and they present to a medical	13:26:47	7	usually don't go downhill that rapidly from a	13:29:29
8	facility and they are actually neurologically	13:26:50	8	small sentinel bleed. You usually don't develop	13:29:32
9	intact, that is not necessarily going to make a	13:26:52	9	severe brain swelling, ischemia, vasospasm,	13:29:35
10	big difference whether they have hydrocephalus or	13:26:55	10	et cetera.	13:29:39
11	a clot; is that right?	13:26:58	11	And so, the way I put this together is	13:29:40
12	A. That's correct.	13:26:58	12	that the most likely scenario is that he had the	13:29:45
13	Q. So when you state the opinion that	13:26:59	13	major bleed or rebleed, if you will, sometime that	13:29:48
14	Mr. Allen's CT scan showed neither of these	13:27:06	14	afternoon while he was in the hotel room sleeping.	13:29:53
15	conditions, that is, the hydrocephalus or this	13:27:09	15	Q. So you base that on the -- just the	13:29:58
16	clotting issue, which in my opinion means that his	13:27:10	16	description of his course through the day? Is	13:30:03
17	prognosis was very poor, regardless of when or	13:27:13	17	that fair to say?	13:30:06
18	where or what kind of treatment was instituted,	13:27:16	18	A. Yes.	13:30:06
19	that is based on the fact that he -- at the point	13:27:18	19	Q. Is any of that based on the wife's	13:30:06
20	where they took the CT scan, he was in such bad	13:27:22	20	deposition testimony? That is, that opinion about	13:30:10
21	shape; is that right?	13:27:26	21	whether or not he rebled, is that based at all on	13:30:14
22	A. That's correct.	13:27:26	22	the wife's testimony about what happened during	13:30:17
23	Q. I am going to jump down toward the	13:27:28	23	the day?	13:30:18
24	end of your report, because I think we have spoken	13:27:38	24	A. No.	13:30:19
25	quite a bit about that -- the one paragraph I am	13:27:43	25	Q. Is it based on, in part, on the	13:30:19
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1	going to skip over for now.	13:27:46	1	record from the Alaska Native Medical Center, the	13:30:26
2	It says, "In general, aneurysms are	13:27:47	2	emergency room visit record from the 19th?	13:30:29
3	Ideally treated within 72 hours of the initial	13:27:49	3	A. Well, only to the extent that, as I	13:30:32
4	bleed."	13:27:52	4	said earlier, his condition when he was seen at	13:30:36
5	And why is that?	13:27:52	5	the Alaska Native Regional Center was such that I	13:30:41
6	A. Well, a couple of reasons. One is	13:27:56	6	don't think he had had a major bleed at that time.	13:30:46
7	the sooner you deal with them, the sooner you	13:28:04	7	And that's why I don't think that he would have	13:30:50
8	eliminate the possibility of rebleeding. The	13:28:09	8	had that terrible decline in clinical condition	13:30:53
9	second reason is that the peak incidence of	13:28:12	9	unless he rebled.	13:30:58
10	vasospasm is probably between three and ten days	13:28:17	10	Q. I am just trying to hit on all the	13:31:01
11	post bleed.	13:28:22	11	factors that went into your opinion about him	13:31:03
12	Q. Could you tell by looking at	13:28:24	12	rebleeding.	13:31:06
13	Mr. Allen's CAT scan on the 19th whether or not he	13:28:26	13	And so, was it based on the CT scan in	13:31:07
14	had suffered a vasospasm?	13:28:30	14	the afternoon?	13:31:09
15	A. Can't tell from CAT scan.	13:28:31	15	A. Well, to some extent the CT scan	13:31:11
16	Q. Can you tell by looking at his CAT	13:28:33	16	showed, A, that he had a significant bleed; B,	13:31:15
17	scan whether or not that is a rebleed?	13:28:37	17	that he had cerebral edema; C, that he had	13:31:19
18	A. No.	13:28:38	18	ischemia. All of those things, in my opinion, are	13:31:24
19	Q. Do you have an opinion about	13:28:39	19	more likely the result of a major bleed, and in my	13:31:28
20	whether or not he rebled that day?	13:28:40	20	opinion, the morning bleed, if he had one, was not	13:31:32
21	A. I think it's more likely than not	13:28:42	21	a major one.	13:31:35
22	that he had the sentinel bleed the night before or	13:28:48	22	Q. Now, I want to just explore the,	13:31:36
23	early that morning, and that he rebled sometime	13:28:52	23	sort of, possibilities. And I understand it's	13:31:41
24	when he was in his hotel room that afternoon.	13:28:57	24	your opinion it's more likely than not that he had	13:31:43
25	Q. Why do you -- I'm just curious.	13:29:01	25	a sentinel bleed the night before, sometime before	13:31:46
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1	he presented to the ER, and then a rebleed that	13:31:49	1	40?	13:34:39
2	afternoon before he was taken to Providence; is	13:31:54	2	A. Sure.	13:34:40
3	that right?	13:31:57	3	Q. What else?	13:34:42
4	A. That's correct.	13:31:57	4	A. The magnitude of the bleed bears on	13:34:42
5	Q. So now I want to understand	13:31:58	5	the outcome. I mean, in other words, how much	13:34:50
6	possibilities.	13:31:59	6	blood do you see when you go in surgically, or how	13:34:53
7	I don't know, is it possible he could	13:32:01	7	much blood do you see on the CAT scan, is it a	13:34:56
8	have had a significant bleed before he presented	13:32:02	8	little bit or is it a lot? And that seems to have	13:34:59
9	to the ER on the morning of April 19th?	13:32:05	9	a prognostic significance.	13:35:03
10	A. I don't think so.	13:32:07	10	Q. And just in terms of quantities, I	13:35:05
11	Q. Is that based on the note?	13:32:08	11	don't know how neurosurgeons talk about it. Do	13:35:11
12	A. On how he presented. As I said, he	13:32:12	12	they talk about it in terms of, you know, gee, it	13:35:13
13	didn't seem sick enough to be someone who had a	13:32:16	13	was like a pint of blood? I'm just curious. How	13:35:15
14	major subarachnoid hemorrhage.	13:32:20	14	do they measure it or have they --	13:35:20
15	Q. Is that based on your own	13:32:24	15	A. Well, you don't really quantitate	13:35:20
16	experience or the literature or what would that --	13:32:26	16	it, other than to say, yeah, there was a lot of	13:35:22
17	A. On my own experience and the	13:32:29	17	blood in the subarachnoid space or in the cistern	13:35:24
18	literature, yes.	13:32:30	18	is what we call it. But surgically, you -- in	13:35:30
19	Q. Let me ask you this. Would you	13:32:31	19	fact, one of the goals of surgery is to evacuate	13:35:33
20	agree that it's, at least in most of the cases	13:32:50	20	as much of the local clot around the area of the	13:35:37
21	involving patients with subarachnoid bleeds, that	13:32:52	21	aneurysm as you can because that seems to lessen	13:35:41
22	they usually rebleed after the first 24 hours? I	13:32:54	22	the subsequent incidence of vasospasm.	13:35:46
23	mean, is that generally the case?	13:33:02	23	But on CAT scan, as far as quantifying	13:35:50
24	A. Well, I don't know what the	13:33:02	24	it, you know, it's generally just more whether you	13:35:55
25	statistics are exactly, but I know that patients	13:33:06	25	see localized blood in one area, like in the	13:36:01
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1	do rebleed in the first 24 hours.	13:33:10	1	Sylvian fissure, or generalized or diffuse, such	13:36:04
2	Q. Sure, they do, and I am just	13:33:13	2	as in Mr. Allen's case.	13:36:08
3	wondering, do you know what the statistics are on	13:33:14	3	Q. What is the significance if it's	13:36:10
4	that?	13:33:19	4	diffuse versus --	13:36:11
5	A. No.	13:33:19	5	A. Well, that just means that there is	13:36:13
6	Q. When you say the peak of incidence	13:33:19	6	a greater quantity of blood in the subarachnoid	13:36:14
7	of vasospasm is between three and ten days post	13:33:24	7	space, that there was a major bleed and it's	13:36:19
8	bleed, what is that based on?	13:33:26	8	spread all over.	13:36:22
9	A. The literature.	13:33:27	9	Q. Would you describe Mr. Allen's CT,	13:36:24
10	Q. What are some of the other	13:33:28	10	is there -- is it just -- is it really just like	13:36:28
11	factors -- I want to talk about patient outcomes	13:33:52	11	there is a little bit of blood or there is a lot	13:36:30
12	and -- of patients who have aneurysms that	13:33:55	12	of blood?	13:36:32
13	resulted in subarachnoid bleeds.	13:33:57	13	A. There is a lot of blood.	13:36:32
14	What are some of the factors that -- we	13:33:59	14	Q. But in terms of characterizing the	13:36:33
15	have talked about the Hunt-Hess scale, you know,	13:34:01	15	amount of blood that you might see on a CT, is	13:36:35
16	how somebody is doing neurologically. Are there	13:34:04	16	that generally how neurosurgeons talk about it,	13:36:37
17	other factors that would play a role in how a	13:34:06	17	there is a little blood, there is a lot of blood?	13:36:40
18	patient is likely to do?	13:34:12	18	A. Well, or they might say it is	13:36:42
19	A. Yes. In the first place, there are	13:34:13	19	diffuse rather than localized. That's probably a	13:36:43
20	other grading scales beside the Hunt-Hess. I	13:34:17	20	more common characterization, I would say.	13:36:46
21	think the Hunt-Hess is probably the most widely	13:34:21	21	Q. Are there any opinions, just	13:36:48
22	used, but there are other grading scales. I think	13:34:23	22	generally, that you -- is there anything that you	13:36:54
23	that the statistics would say that the younger the	13:34:30	23	have seen, any documents, reports, anything you	13:36:56
24	patient, the better the outcome in general.	13:34:33	24	have seen, since you have drafted your report	13:37:01
25	Q. And the younger meaning less than	13:34:37	25	which would make you want to amend your report or	13:37:03
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1	heavy objects or have a bump in your blood	13:47:12	1	of the patient with a subarachnoid bleed, does	13:49:43
2	pressure to have a rebleed. The sentinel bleed is	13:47:15	2	that influence at all whether or not a patient	13:49:45
3	stopped by a very fragile little clot that --	13:47:18	3	rebleeds?	13:49:47
4	normal physiologic mechanisms dissolve that clot.	13:47:23	4	A. Well, only to the extent that, as	13:49:48
5	That is the normal thing that bodies do. They	13:47:28	5	you said earlier, you are keeping him in bed and	13:49:52
6	dissolve clots that form in your system.	13:47:32	6	trying to prevent him from vomiting so he doesn't	13:49:55
7	Q. But certainly a patient is more	13:47:35	7	raise his pressure. You prevent his blood	13:49:58
8	likely to rebleed if they do something that	13:47:37	8	pressure from jumping up. You can do things to	13:50:01
9	could --	13:47:39	9	try and minimize outside factors from causing a	13:50:03
10	A. That certainly could increase your	13:47:39	10	rebleed, but rebleeding is inevitable in a certain	13:50:10
11	chances of rebleeding, but as statistics will	13:47:41	11	percentage of cases no matter what you do and	13:50:15
12	show, rebleeding happens many times even in	13:47:47	12	where you are treated and how you are treated.	13:50:17
13	patients who are hospitalized in medical centers	13:47:52	13	Q. Do you know what the percentage --	13:50:19
14	with aneurysm care of the latest variety before	13:47:55	14	that percentage of cases is?	13:50:21
15	they get to surgery. It happens. There doesn't	13:48:00	15	A. No. I can't quote the number.	13:50:22
16	have to be a causative incident to make them	13:48:05	16	Q. Do you know whether or not it's	13:50:24
17	rebleed.	13:48:09	17	less than 50 percent?	13:50:26
18	Q. But certainly there could be a	13:48:09	18	A. Well, it probably is, but, I mean,	13:50:27
19	causative incident that does cause rebleeding?	13:48:10	19	that is -- it's hard to quote a number because it	13:50:33
20	A. Yes.	13:48:14	20	depends on what time frame you are talking about.	13:50:37
21	Q. For instance, a patient exerting	13:48:14	21	Are you talking about in 24 hours or in 72 hours	13:50:40
22	himself, that could cause a rebleed; isn't that	13:48:16	22	or ten days? I mean, some centers, you know, will	13:50:43
23	right?	13:48:18	23	sit on patients for ten days and then operate, you	13:50:52
24	A. It could be, yes.	13:48:18	24	know, and their incidence of rebleeding is	13:50:54
25	Q. Before you go on, let me just make	13:48:20	25	significant in that time. If you operate in the	13:50:58

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1	sure that I followed up on that.	13:48:30	1	first 72 hours, it's less.	13:50:59
2	Had he been diagnosed with a	13:48:31	2	But so, in quoting a number, it has to	13:51:01
3	subarachnoid hemorrhage in the morning when he	13:48:40	3	be tied in to how many days you are talking, over	13:51:06
4	presented at the Alaska Native Medical Center	13:48:44	4	what period of time from the initial bleed.	13:51:09
5	Emergency Department, his best Hunt-Hess grade at	13:48:47	5	Q. Do you have an opinion as to when	13:51:10
6	that point would have been a 1; isn't that right?	13:48:52	6	Mr. Allen rebled on the date of the -- on the	13:51:12
7	A. That's right.	13:48:53	7	19th?	13:51:16
8	Q. And, in fact, his worst Hunt-Hess	13:48:54	8	A. Well, I can only say that it likely	13:51:16
9	grading system would have been a 1; isn't that	13:48:59	9	happened sometime between the time he laid down	13:51:21
10	right? Certainly at that time in the morning had	13:49:01	10	and went to sleep, which was, what, about -- was	13:51:25
11	he been diagnosed --	13:49:03	11	it 1:00 or 1:30? I mean, there are little	13:51:29
12	A. Well, at 8:00 in morning, yeah.	13:49:03	12	discrepancies in the time frame, I think, from the	13:51:32
13	But that is irrelevant. What I am saying is what	13:49:05	13	different stories, but basically, I think it's	13:51:37
14	is relevant is his worst grade prior to treating	13:49:09	14	somewhere around 1:00 or 1:30 in the afternoon	13:51:39
15	the aneurysm. Okay. I am saying that --	13:49:13	15	that he went to sleep, and she went out for	13:51:42
16	Q. And you define treatment, then, in	13:49:19	16	McDonald's or something and then came back. But	13:51:46
17	that instance as surgery?	13:49:21	17	sometime between there and, say, 3:00 or 4:00, I	13:51:49
18	A. Surgery or interventional coiling.	13:49:22	18	would say.	13:51:53
19	Q. But not medical treatment?	13:49:25	19	Q. Why do you say there -- the time,	13:51:54
20	A. That's right, because medical	13:49:29	20	whatever time he laid down, to 3:00 or 4:00?	13:51:56
21	treatment can't stop bleeding.	13:49:30	21	A. Well --	13:52:00
22	Q. Can it -- does it change -- let me	13:49:35	22	Q. I am focused on the 3:00 or 4:00	13:52:01
23	make sure I understand that.	13:49:37	23	part.	13:52:03
24	Does it change at all? Medical	13:49:39	24	A. Yeah. I am assuming that when he	13:52:03
25	treatment, that is, preoperative medical treatment	13:49:40	25	had the sonorous or stertorous breathing, that --	13:52:05

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